What is claimed is:

- An optical recording medium that includes a phase change recording layer where reversible phase changes
 between a crystal phase and an amorphous phase are used, wherein the recording layer includes at least Sb, Mn, and Te and, in a state corresponding to the crystal phase, has a structure where one diffracted ray is detected by X-ray diffraction as being present in each of three spacings (Å) of 3.10±0.03, 2.25±0.03, and 2.15±0.03, in a range of between 3.13 and 2.12 spacing inclusive, with diffracted rays not being detected in other ranges within the 3.13 to 2.12 spacing range.
- 2. An optical recording medium according to Claim 1, 15 wherein when indexing as a hexagonal lattice is performed in a state corresponding to the crystal phase, the recording layer has a structure where a lattice plane corresponding to the diffracted ray present in a range of the 3.10 ± 0.03 spacing is capable 20 of being indexed as a hexagonal (012) plane, a lattice plane corresponding to the diffracted ray present in a range of the 2.25 ± 0.03 spacing is capable of being indexed as a hexagonal (104) plane, and a lattice plane 25 corresponding to the diffracted ray present in a range of the 2.15 ± 0.03 spacing is capable of being indexed as a hexagonal (110) plane.
- 3. An optical recording medium that includes a phase change recording layer where reversible phase changes between a crystal phase and an amorphous phase are used, wherein when indexing has been performed for a hexagonal lattice in a state corresponding to the crystal phase, the recording layer has a structure where an axial ratio c/a of a c axis length to an a

axis length is between 2.558 and 2.676 inclusive.

4. An optical recording medium according to any of Claims 1 to 3, wherein in the state corresponding to the crystal phase, the recording layer is constructed of a single phase with an A7 structure.